

**MANDATORY DISCLOSURE (as on 01.02.2022)**

<b>1</b>	<b>AICTE File No</b>	Southern/1-9318740170/2021/EOA
	<b>Date &amp; Period of Last Approval</b>	Date: 25-06-2021 Period of Last Approval : 2021-2022
<b>2</b>	<b>Name of the Institution</b>	<b>Government College of Engineering Srirangam</b>
	<b>Address of the Institution</b>	Sethurappatti, Tiruchirappalli, Tamilnadu, Pincode: 620012.
	<b>State</b>	Tamil Nadu
	<b>Phone Number with STD Code</b>	9488008656
	<b>Office hours at the Institution</b>	10.00 AM – 5.30 PM
	<b>Academic hours at the Institution</b>	9.00 AM – 4.45 PM
	<b>E – mail</b>	principal@gces.edu.in
	<b>Website</b>	<a href="http://www.gces.edu.in">www.gces.edu.in</a>
	<b>Nearest Railway Station</b>	Tiruchirappalli Junction
	<b>Nearest Airport</b>	Tiruchirappalli Airport
<b>3</b>	<b>Type of Institution</b>	Government
	<b>Category (1) of the Institution</b>	Non Minority
	<b>Category (2) of the Institution</b>	Co – Education
<b>4</b>	<b>Name of the affiliating University</b>	Anna University Chennai
	<b>Address</b>	Sardar Patel Road, Guindy, Chennai – 600 025
	<b>Website</b>	<a href="http://www.annauniv.edu">www.annauniv.edu</a>
	<b>Latest affiliation period</b>	2021-2022
<b>5</b>	<b>Name of Principal</b>	Dr. V.M.Shanthi
	<b>Exact Designation</b>	Principal
	<b>Phone number with STD Code</b>	8903127517
	<b>Email</b>	<a href="mailto:principal@gces.edu.in">principal@gces.edu.in</a>
	<b>Highest Degree</b>	Ph.D.
	<b>Field of Specialization</b>	Civil Engineering



## **7. STUDENT FEEDBACK MECHANISM ON INSTITUTIONAL GOVERNANCE / FACULTY PERFORMANCE**

- a) At the end of every semester, faculty teaching performance is being evaluated through feedback forms by students for all subjects and follow up action will be taken.
- b) During Class Committee Meetings (CCM) and at the time of student counseling student evaluate institutional governance.

## **8. GRIEVANCE REDRESSAL MECHANISM FOR FACULTY, STAFF AND STUDENTS**

- a) HOD Meetings
- b) Department Meetings
- c) Retest are conducted for the students
- d) Student Counselling

## **9. (a) COMPLAINTS CUM REDRESSAL COMMITTEE**

<b>NAME</b>	<b>DESIGNATION</b>
Dr.V.M.Shanthi, Principal	Chair Person
Mrs.R.Sarojini, HoD/ECE	Member
Sister Pragashi OSM, Administrator (RN&RM), Holy Family Hansenorium, Fathima Nagar, Trichy-12	NGO Member
Dr.R.Varthini, AP/MECH	Member
Dr.S.Nagarajan, ASP(CAS)/CSE	Member
Dr.P.Manivannan, AP/Maths	Member
Mrs.M.Banupriya, AP/CIVIL	Member

**(b) SC/ST COMMITTEE**

<b>NAME</b>	<b>DESIGNATION</b>
Dr. V.M.Shanthi, Principal	Chairperson
Mrs.R.Sarojini, HoD/ECE	Member
Mrs.P.Vanitha Muthu, HoD/CSE	Member
Mr.J.Kalidass, AP/CSE	Member
Mr.D.Kalaiarasan, AP/ECE	Member
Mrs.J.Valarmathi, Superintendent	Member
Mr.M.Senthil Kumar, Lab Asst./MECH	Member

**(c) SEXUAL HARASSMENT REDRESSAL COMMITTEE**

<b>NAME</b>	<b>DESIGNATION</b>
Dr. V.M.Shanthi, Principal	Chairman
Sister Pragashi OSM, Administrator (RN&RM), Holy Family Hansenorium, Fathima Nagar, Trichy-12	NGO Member
Mrs.P.Vanitha Muthu, HoD/CSE	Member
Mrs.G.Sheeba, AP /ECE	Member
Ms.M.Dhanalakshmi, AP/Chemistry	Member
Mrs.M.Bhavani, AP/EEE	Member
Mrs. K.Sadhana, AP/CIVIL	Member

**(d) ANTI-RAGGING COMMITTEE**

<b>NAME</b>	<b>DESIGNATION</b>
Dr. V.M.Shanthi, Principal	Chairman
Mrs.M.Banupriya, AP/CIVIL	Member
Mr.K.Manikandan, AP/EEE	Member
Mr.B.Suresh Kumar, AP/MECH	Member
Dr.A.Hemamalini, AP/Chemistry	Member
Mr.P.Kanagaraj, Lab Asst./ECE	Member
Sister Pragashi OSM, Administrator (RN&RM), Holy Family Hansensorium, Fathima Nagar, Trichy-12	NGO Member
Mrs.M.Surya, Inspector	Member
Mrs.P.Sasikumari, Revenue Inspector	Member
Mr.S.Tamilarasu, III Year CSE	Student Member
Ms.A.Abirami, III Year ECE	Student Member
Mr.P.Thivakaran, Parent Representative	Member

**(e) ANTI-RAGGING SQUAD**

<b>NAME</b>	<b>DESIGNATION</b>
Dr. V.M.Shanthi, Principal	Chairman
Mrs.P.Vanitha Muthu, HoD/CSE	Member
Mrs.R.Sarojini, HoD/ECE	Member
Mr.P.Ganesan, HoD/EEE	Member
Dr.G.Saravanan, HoD/CIVIL	Member
Mr.N.Ramasubbu, AP/MECH	Member
Mrs.G.Selvasundari, Lab Asst./MECH	Member

**10. PROGRAMMES:****(a) NAME OF THE PROGRAMMES APPROVED BY AICTE**

<b>S.No</b>	<b>Department</b>	<b>Name of the Programme</b>	<b>Duration</b>	<b>Approved Student Intake</b>	<b>Year of Starting</b>
1	Civil Engineering	B.E. Civil Engineering	4 Years	60	2013
2	Mechanical Engineering	B.E. Mechanical Engineering	4 Years	60	2013
3	Electrical & Electronics Engineering	B.E. Electrical & Electronics Engineering	4 Years	60	2013
4	Electronics & Communication Engineering	B.E. Electronics & Communication Engineering	4 Years	60	2013
5	Computer Science & Engineering	B.E. Computer Science & Engineering	4 Years	60	2013

**(b) NUMBER OF STUDENTS ADMITTED IN LAST THREE YEARS**

<b>S.No</b>	<b>Department</b>	<b>2018 -19</b>	<b>2019 -20</b>	<b>2020-21</b>
1	Civil Engineering	<b>60</b>	<b>57</b>	<b>53</b>
2	Mechanical Engineering	<b>59</b>	<b>56</b>	<b>59</b>
3	Electrical & Electronics Engineering	<b>45</b>	<b>55</b>	<b>57</b>
4	Electronics & Communication Engineering	<b>57</b>	<b>56</b>	<b>57</b>
5	Computer Science & Engineering	<b>54</b>	<b>52</b>	<b>54</b>
<b>Total</b>		<b>275</b>	<b>276</b>	<b>280</b>

**(c) LAST CUT OFF MARKS (BRANCH WISE /COMMUNITY WISE)****ACADEMIC YEAR – 2020 - 21**

S.No	Department	OC	BC	BCM	MBC	SC	SCA	ST
		LC	LC	LC	LC	LC	LC	LC
1	CIVIL	140.5	116	106.5	116	121.5	138	-
2	MECH	147	123	120	127.5	111.5	85	112
3	EEE	151	134	140.5	131	128	145.5	87.5
4	ECE	160	154.5	113	139	129.5	146	-
5	CSE	164	154.5	141.5	150	146	124.5	132.5

**ACADEMIC YEAR – 2019 -20**

S.No	Department	OC	BC	BCM	MBC	SC	SCA	ST
		LC	LC	LC	LC	LC	LC	LC
1	CIVIL	172.065	164.33	160.855	163.79	165.045	160.945	-
2	MECH	173.69	168.44	165.795	165.615	164.96	164.845	154.415
3	EEE	178.77	176.08	167.265	174.065	171.9	155.415	-
4	ECE	184.605	180.87	178	178.21	175.47	170.23	-
5	CSE	186.745	185.58	186.435	186.495	178.33	179.92	167.76

**ACADEMIC YEAR – 2018 -19**

S.No	Department	OC	BC	BCM	MBC	SC	SCA	ST
		LC	LC	LC	LC	LC	LC	LC
1	CIVIL	170.75	144.25	122.75	145.75	137.25	-	-
2	MECH	173	162.75	163.75	163.75	148	118.75	150
3	EEE	-	166.25	-	159	109	-	-
4	ECE	182	162.75	123	169.75	117.5	154.5	-
5	CSE	180.5	158.67	167	169.25	149.75	162.25	-

**(d) Academic performance for past 3 years (pass %)**

Academic Year	2018-2019	2019-2020	2020-2021
UG	45.26	30.5	96.55

**11. RESEARCH PAPER PUBLISHED IN PEER REVIEWED JOURNALS**

Academic Year	2018-2019	2019-2020	2020-2021 to till date
Total No .of papers	12	20	30

**12. PLACEMENT DETAILS**


Academic Year	Number of Students Placed	Min salary offered (Per ann) Rs.	Max salary offered (Per ann) Rs.	List of few companies visited our campus
2018-19	117	1.2 lakhs	4.6 lakhs	1. Resolution Specialist, Amazon India 2. Gestamp Automotive, Chennai 3. Shizen Energy, Chennai 4. Bharati Cement Pvt Ltd, Chennai. 5. L&T transportation infrastructure Bial nspr project Kembegowda
2019-20	139	1.8 lakhs	3.8 lakhs	1. Plintron global technology pvt ltd ,chennai 2. Transition next gen, bangalore 3. P&C projects Pvt Ltd, Virunthavanam Nagar (NTECL Township), Vallur, Chennai 4. Abirami Builders, Chengalpattu 5. Schneider electric pvt Ltd., Chennai
2020-21	97	1.8 lakhs	3.2 lakhs	1. Wise Tech Source, Chennai, 2. Triphase Technologies Pvt. Ltd., Bangalore 3. Panacea Medical Technologies Pvt. Ltd., Bangalore 4. Crypton Technologies, Bangalore 5. Flextronics, Chennai



### 13. FACULTY

#### DEPARTMENT WISE TEACHING FACULTY - DETAILED

S.No	Department	Available Staff Members
1	Civil Engineering	14
2	Mechanical Engineering	13
3	Electrical & Electronics Engineering	11
4	Electronics & Communication Engineering	13
5	Computer Science & Engineering	13
6	Science and Humanities & General Engineering	15
<b>Total</b>		<b>79</b>

<b>Name of Head of the Institution: Dr. V. M. Shanthi</b>			
<b>Designation</b>	PRINCIPAL		
<b>Date of Birth</b>	25 - 06- 1963		
<b>Qualification</b>	<b>UG</b>	<b>PG</b>	<b>Ph.D.</b>
	B.E. – Civil Engineering	M.E. – Structural Engineering	Civil Engineering
<b>Total Experience in Years</b>	<b>Teaching</b>	<b>Research</b>	<b>Industry</b>
	36 Y	30Y	0.5
<b>Papers published</b>	<b>National</b>	<b>International</b>	
	10	25	
<b>Papers presented in Conference</b>	<b>National</b>	<b>International</b>	
	55	05	

#### FACULTY PROFILE

<https://drive.google.com/file/d/1UioPxmooAoZ5jJLfobqQthiF1GfS4KFe/view?usp=sharing>

**14. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE**

S.No.	Name of the Block	Area (Length Width) in sq.m.	Number of Rooms
1.	Administrative Block (Class Rooms)	100.28	20
2.	Administrative Block (Drawing Hall)	1059	03
3.	Administrative Block( Computer Centers)	223.76	03
4.	Administrative Block( Laboratory)	223.7	25
5.	Workshop	380	1

**(a) LIBRARY**

S.No.	Details	Area
1.	Library	528.15

**BOOKS**

Sl. No.	Description	No. of Books (Title) available	No. of Books (Volumes) available
1.	Science and Humanities	1160	2527
2.	Engineering	4392	12178
Total		<b>5552</b>	<b>14705</b>

**JOURNALS**

Sl. No.	Name of the Course	No. of Journals	
		National	International
1.	Civil	6	-
2.	Mechanical	6	-
3.	EEE	6	-
4.	ECE	6	-
5.	CSE	6	-
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	PG 1	-	-
	PG 2	-	-
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## E-JOURNALS

S. No	Name of the e-Journal Publisher	Total No. of Journals	No. of Journals
1.	DELNET	400 +	Civil (49), Mech (25), EEE (30), ECE (17), CSE (114) and Allied (165)
2.	gale.cengage (IESTC)	1868 +	Civil (35), Mech (66), EEE (48), ECE (12), CSE (71) and Science & Technology (1636)

## NDLI CLUB

**CLUB Registration Number: INTNNC4PJW9HWMX**

Club Patron - Dr.V.M. Shanthi, Principal

Club President-Prof.P.Vanitha Muthu, HoD/CSE

Club Secretary – Dr.C. Smitha, HoD/Chemistry

Club Member-Dr.S.Annie Joice, Assistant Professor/CSE

## (b) HOSTEL

S.No.	Details	Area sq. m	Number of Rooms
1.	Boys Hostel	20	172
2.	Girls Hostel	20	172

## (c) LABORATORY AND WORKSHOP

S.No.	Name of the Laboratory	Equipments
1.	Engineering Practices Laboratory	<ol style="list-style-type: none"><li>1. Electrical measuring instruments</li><li>2. Hand Drilling Machine</li><li>3. Planer</li><li>4. Centre lathe</li><li>5. Circular Saw</li><li>6. Carpentry vice (fitted to work bench)</li><li>7. Digital Live-wire detector</li><li>8. Demolition Hammer</li><li>9. Assorted electronic components for making circuits</li><li>10. Assorted components for plumbing Consisting of metallic pipes, plastic pipes, flexible pipes, couplings, unions, elbows, plugs and other fittings.</li><li>11. Arc welding transformer with cables and holders</li><li>12. Welding booth with exhaust facility</li><li>13. Welding accessories like welding shield, chipping hammer, wire brush, etc.</li><li>14. Standard woodworking tools</li><li>15. Study-purpose items: centrifugal pump, air-conditioner</li><li>16. Soldering guns</li><li>17. Power Tools: (a) Rotary Hammer</li><li>18. Power Tools: (a) Range Finder</li><li>19. Power Tool: Angle Grinder</li></ol>

		<ul style="list-style-type: none"> <li>20. Oxygen and acetylene gas cylinders, blow pipe and other welding outfit.</li> <li>21. Models of industrial trusses, door joints, furniture joints</li> <li>22. Hearth furnace, anvil and smithy tools</li> <li>23. Megger (250V/500V)</li> <li>24. Jigsaw</li> </ul>
2.	Physics & Chemistry Laboratory	<ul style="list-style-type: none"> <li>1. Home Photometer</li> <li>2. Viscometer</li> <li>3. Velocity of sound and compressibility of liquid-Ultrasonic interferometer</li> <li>4. Torsion pendulum</li> <li>5. Thermal conductivity of bad conductor-Lee's Disc</li> <li>6. Potentiometer</li> <li>7. pH Meter</li> <li>8. Conductivity Meter</li> <li>9. Spectrophotometer</li> </ul>
3.	Surveying Laboratory	<ul style="list-style-type: none"> <li>1. Theodolites</li> <li>2. Surveyor Compass</li> <li>3. Survey grade or Hand held GPS</li> <li>4. Ranging rods(set)</li> <li>5. Prismatic Compass</li> <li>6. Pocket stereoscope</li> <li>7. Leveling staff(set)</li> <li>8. Dumpy level / Filling level</li> <li>9. Cross staff(set)</li> <li>10. Chains(set)</li> <li>11. Arrows(set)</li> <li>12. Total Station</li> </ul>
4.	Strength of Materials Laboratory	<ul style="list-style-type: none"> <li>1. Torsion testing machine</li> <li>2. Mortar cube moulds</li> <li>3. Le Chateliers apparatus</li> <li>4. Izod impact testing machine</li> <li>5. Hardness testing machine-Vickers/Brinell</li> <li>6. Hardness testing machine-Rockwell</li> <li>7. Extensometer</li> <li>8. Dial gauges</li> <li>9. Compressometer</li> <li>10. Beam deflection test apparatus</li> <li>11. UTM of minimum 400 KN</li> <li>12. Vicats apparatus</li> </ul>
5.	Hydraulic Engineering Laboratory	<ul style="list-style-type: none"> <li>1. Venturimeter/Orifice meter</li> <li>2. Submersible pump</li> <li>3. Rotometer</li> <li>4. Pelton Wheel turbine</li> <li>5. minor losses</li> <li>6. Gear Pump</li> <li>7. friction factor in pipes</li> <li>8. Francis turbines / kaplon turbine Centrifugal Pump</li> <li>9. Bernoullis</li> </ul>
6.	Water and Waste Water Analysis Laboratory	<ul style="list-style-type: none"> <li>1. Measuring jar 50mL</li> <li>2. Volumetric flask</li> <li>3. Volumetric flask500mL</li> <li>4. Volumetric flask 250mL</li> <li>5. Volumetric</li> <li>6. Volumetric</li> <li>7. Volumetric flask1000mL</li> <li>8. UV and Visible Spectrophotometer</li> <li>9. Test tubes 20mL</li> <li>10. Sterilization</li> <li>11. Refrigerator</li> <li>12. Pipette 5mL</li> <li>13. Pipette 2</li> <li>14. Pipette 10mL</li> <li>15. pH meter</li> <li>16. Nessler's tube 100</li> <li>17. Nephelometer</li> <li>18. Muffle furnace</li> <li>19. Water bath</li> <li>20. Jar test apparatus</li> </ul>

		<ol style="list-style-type: none"> <li>21. Imhoff cone</li> <li>22. Hot air oven</li> <li>23. DO meter</li> <li>24. Conical flask 10 mL</li> <li>25. Conductivity meter</li> <li>26. Compound microscope</li> <li>27. COD digester (with 6 heating mantle)</li> <li>28. China dish</li> <li>29. Burette 50mL with stand</li> <li>30. Burette 25mL with stand</li> <li>31. BOD incubator</li> <li>32. Beaker 500mL</li> <li>33. Beaker 100mL</li> <li>34. Beaker1000mL</li> <li>35. Bacteriological incubator</li> <li>36. Autoclave</li> <li>37. Weighing machine(0.0001g)</li> <li>38. Weighing machine(0.001g)</li> </ol>
7.	Soil Mechanics Laboratory	<ol style="list-style-type: none"> <li>1. Van Shear apparatus</li> <li>2. UTM of minimum of 20KN capacity</li> <li>3. Triaxial shear</li> <li>4. Three gang consolidation test device</li> <li>5. Thermometer</li> <li>6. Sieves</li> <li>7. Shinkage limit</li> <li>8. Sand replacement method accessories and core cutter method accessories</li> <li>9. Relative Density apparatus</li> <li>10. Proctor compaction apparatus</li> <li>11. Liquid and plastic limit apparatus</li> <li>12. Hydrometer</li> <li>13. Direct shear apparatus</li> <li>14. Weighing machine 20kg capacity</li> <li>15. Weighing machine 1kg capacity</li> </ol>
8.	Highway Engineering Laboratory	<ol style="list-style-type: none"> <li>1. Vee Bee Consistometer</li> <li>2. Trovels and planers</li> <li>3. Slump cone</li> <li>4. Sieves</li> <li>5. Marshall Stability Apparatus</li> <li>6. Los - Angeles abrasion testing machine</li> <li>7. Flow table</li> <li>8. Concrete Prism moulds</li> <li>9. Concrete Mixer</li> <li>10. Concrete cylinder moulds</li> <li>11. Concrete cube moulds</li> <li>12. Apparatus</li> <li>13. Blains Apparatus</li> <li>14. Aggregate impact testing machine</li> <li>15. Vibrator</li> <li>16. UTM - 400 kN capacity</li> </ol>
9.	Manufacturing Technology Laboratory I	<ol style="list-style-type: none"> <li>1. Vertical Milling Machine</li> <li>2. Arc welding transformer with cables and holders</li> <li>3. Centre Lathes</li> <li>4. Horizontal Milling Machine</li> <li>5. Moulding table, Moulding equipments</li> <li>6. Oxygen and acetylene gas cylinders, blow pipe and other welding outfit</li> <li>7. Shaper</li> <li>8. Sheet metal forming tools and equipments</li> </ol>
10.	Electrical Engineering Laboratory	<ol style="list-style-type: none"> <li>1. DC Series motor</li> <li>2. Three phase synchronous motor</li> <li>3. Three phase Squirrel cage Induction motor</li> <li>4. Three phase Slip ring Induction motor</li> <li>5. Three phase alternator</li> <li>6. Single phase transformer</li> <li>7. DC shunt motor-DC Shunt Generator set</li> <li>8. DC Shunt motor-DC Series Generator set</li> <li>9. DC Shunt motor</li> </ol>

11.	Manufacturing Technology Laboratory II	<ol style="list-style-type: none"> <li>1. Turret and Capstan Lathes</li> <li>2. Center less grinding machine</li> <li>3. CNC Lathe</li> <li>4. CNC milling machine</li> <li>5. Cylindrical Grinding Machine</li> <li>6. Gear Hobbling Machine I</li> <li>7. Gear Shaper machine</li> <li>8. Horizontal Milling Machine</li> <li>9. lathe Tool Dynamometer</li> <li>10. Milling Tool Dynamometer</li> <li>11. Radial Drilling Machine</li> <li>12. Surface Grinding Machine</li> <li>13. Tool and cutter grinder</li> <li>14. Tool Makers Microscope</li> <li>15. Vertical Milling Machine</li> </ol>
12.	Strength of Materials and Fluid Mechanics and Machinery Laboratory	<ol style="list-style-type: none"> <li>1. Gear pump setup</li> <li>2. Francis turbine setup</li> <li>3. Centrifugal pump/submergible pump setup</li> <li>4. Brinell Hardness Testing Machine</li> <li>5. Pelton wheel setup</li> <li>6. Pipe Flow analysis setup</li> <li>7. Reciprocating pump setup</li> <li>8. Rockwell Hardness Testing Machine</li> <li>9. Rotameter</li> <li>10. Spring Testing Machine for tensile and compressive loads (2500 N)</li> <li>11. Torsion Testing Machine (60 NM Capacity)</li> <li>12. Universal Tensile Testing machine with double 1 shear attachment 40 Ton Capacity</li> <li>13. Venturi meter setup</li> <li>14. Orifice meter setup</li> <li>15. Muffle Furnace (800 C)</li> <li>16. Metallurgical Microscopes</li> <li>17. Kaplan turbine setup</li> <li>18. Impact Testing Machine (300 J Capacity)</li> </ol>
13.	Kinematics and Dynamics Laboratory	<ol style="list-style-type: none"> <li>1. Kinematic Models to study various mechanisms</li> <li>2. Whirling of shaft apparatus</li> <li>3. Two rotor vibration setup</li> <li>4. Turn table apparatus</li> <li>5. Transverse vibration setup of cantilever</li> <li>6. Torsional Vibration of single rotor system setup</li> <li>7. Spring mass vibration system</li> <li>8. Motorised gyroscope</li> <li>9. Governor apparatus - Watt, Porter, Proell and Hartnell governors</li> <li>10. Gear Models</li> <li>11. Dynamic balancing machine</li> <li>12. Cam follower setup</li> </ol>
14.	Thermal Engineering Laboratory	<ol style="list-style-type: none"> <li>1. 4-stroke Diesel Engine with mechanical loading</li> <li>2. 4-stroke Diesel Engine with hydraulic loading</li> <li>3. 4-stroke Diesel Engine with electrical loading</li> <li>4. Parallel/counter flow heat exchanger apparatus</li> <li>5. Pin-fin apparatus</li> <li>6. Refrigeration test rig</li> <li>7. Single cylinder Petrol Engine</li> <li>8. Single/two stage reciprocating air compressor</li> <li>9. Steam Boiler with turbine setup</li> <li>10. Stefan-Boltzmann apparatus</li> <li>11. Thermal conductivity of insulating powder apparatus 1</li> <li>12. Natural convection-vertical cylinder apparatus</li> <li>13. Multi-cylinder Petrol Engine</li> <li>14. Lagged pipe apparatus</li> <li>15. I.C Engine 2 stroke and 4 stroke model</li> <li>16. Guarded plate apparatus</li> <li>17. Forced convection inside tube apparatus</li> <li>18. Emissivity measurement apparatus</li> <li>19. Data Acquisition system with any one of the above engines</li> <li>20. Composite wall apparatus</li> <li>21. Apparatus for Flash and Fire</li> <li>22. Air-conditioning test rig</li> </ol>

15.	Metrology and Measurements Laboratory	<ol style="list-style-type: none"> <li>1. Surface finish measuring equipment</li> <li>2. Vernier depth Gauge</li> <li>3. Vernier Height Gauge</li> <li>4. Slip Gauge Set</li> <li>5. Sine Bar</li> <li>6. Profile Projector / Tool Makers Microscope</li> <li>7. Parallel / counter flow heat exchanger apparatus</li> <li>8. Micrometer</li> <li>9. Temperature Measuring Setup</li> <li>10. Autocollimator</li> <li>11. Bore gauge</li> <li>12. Coordinate measuring machine</li> <li>13. Floating Carriage Micrometer</li> <li>14. Force Measuring Setup</li> <li>15. Gear Tooth Vernier</li> <li>16. Mechanical / Electrical / Pneumatic Comparator</li> <li>17. Torque Measuring Setup</li> <li>18. Vernier Caliper</li> <li>19. Telescope gauge</li> </ol>
16.	CAD/CAM Laboratory	<ol style="list-style-type: none"> <li>1. Computer</li> <li>2. Licensed operating system</li> <li>3. Support for CAPP</li> <li>4. CAM Software for machining centre and turning centre (CNC Programming and tool path simulation for FANUC / Sinumeric and Heidenhain controller)</li> <li>5. High end integrated modeling and manufacturing CAD / CAM software</li> <li>6. Computer nodes or systems (High end CPU with atleast 1 GB main memory)</li> <li>7. networked to the server</li> <li>8. A3 size plotter</li> <li>9. Laser Printer</li> <li>10. CNC milling machine</li> <li>11. CNC Lathe</li> </ol>
17.	Problem Solving and Python Programming Laboratory	<ol style="list-style-type: none"> <li>1. Standalone desktops with Python (3 interpreter for Windows/Linux)</li> <li>2. Server with Python (3 interpreter for Windows/Linux)</li> </ol>
18.	Data Structures Laboratory	<ol style="list-style-type: none"> <li>1. Systems with Linux Operating System with gnu compiler</li> </ol>
19.	Digital System Laboratory	<ol style="list-style-type: none"> <li>1. Digital ICs</li> <li>2. Software: HDL simulator</li> <li>3. Digital trainer kits</li> </ol>
20.	Object Oriented Programming Laboratory	<ol style="list-style-type: none"> <li>1. Systems with either Netbeans or Eclipse</li> </ol>
21.	Database Management Systems Laboratory	<ol style="list-style-type: none"> <li>1. Server</li> <li>2. Visual Studio</li> <li>3. Systems with MySql</li> </ol>
22.	Networks Laboratory	<ol style="list-style-type: none"> <li>1. Standalone Desktops</li> <li>2. C / C++ / Java / Python / Equivalent Compiler Network Simulator like NS2 / Glomosim / OPNET / Packet Tracer</li> </ol>
23.	Microprocessor and Microcontroller Laboratory	<ol style="list-style-type: none"> <li>1. Microcontroller trainer kit</li> <li>2. Digital clock interfacing board compatible with 8086 &amp; 8051 kits</li> <li>3. 8086 Microprocessor trainer kit with power supply</li> <li>4. Stepper motor control interfacing compatible with 8086 &amp; 8051 kits</li> <li>5. Traffic light control interfacing card compatible with 8086 &amp; 8051 kits</li> <li>6. Keyboard &amp; Display interface board compatible with 8086 &amp; 8051 kits</li> <li>7. A/D and D/A interfacing card compatible with 8086 &amp; 8051 kits</li> <li>8. Printer interfacing card compatible with 8086 &amp; 8051 kits</li> <li>9. Serial and Parallel interfacing card compatible with 8086 &amp; 8051 kits</li> </ol>
24.	Operating Systems Laboratory	<ol style="list-style-type: none"> <li>1. Systems with Linux OS and GNU Computer</li> </ol>

25.	Object Oriented Analysis and Design Laboratory	<ol style="list-style-type: none"> <li>1. Open Source Alternatives: ArgoUML,StarUML, Visual Paradigm (or) Equivalent Eclipse IDE and Junit</li> <li>2. PCs</li> <li>3. Rational Suite</li> </ol>
26.	Internet Programming Laboratory	<ol style="list-style-type: none"> <li>1. Systems</li> <li>2. Server (Web Server)</li> <li>3. Java/JSP/ISP Webserver/Apache Tomcat / MySQL / Dreamweaver or Equivalent, WAMP/XAMP</li> </ol>
27.	Mobile Application Development Laboratory	<ol style="list-style-type: none"> <li>1. Standalone desktops or Server supporting terminals</li> </ol>
28.	Circuits and Devices Laboratory	<ol style="list-style-type: none"> <li>1. Bread Boards</li> <li>2. CRO(30MHz)</li> <li>3. Dual Regulated power Supplies(0-30V)</li> <li>4. Function Generators(3MHz)</li> <li>5. IN4007,Zener diodes</li> <li>6. Resistors, Capacitors, Inductors</li> <li>7. Mixed Signal Oscilloscope (100MHz)</li> <li>8. BC107,BC148,2N2646,BFW10</li> </ol>
29.	Analog and Digital Circuits Laboratory	<ol style="list-style-type: none"> <li>1. Dual Regulated Power Supplies ( 0 - 30V)</li> <li>2. Dual power supply/single mode power supply</li> <li>3. Diodes, Zener diode</li> <li>4. Bread Boards</li> <li>5. CRO (30MHz)</li> <li>6. Transistor/FET (BJT-NPN-PNP and NMOS/PMOS)</li> <li>7. Standalone desktop PCs with SPICE software</li> <li>8. Signal Generator /Function Generators (3 MHz)</li> <li>9. Seven segment display</li> <li>10. Resistors, Capacitors, Inductors</li> <li>11. Multimeter</li> <li>12. IC Trainer Kit</li> <li>13. ICs 7400/ 7402 / 7404 / 7486 / 7408 / 7432 / 7483 / 74150 / 74151 / 74147 / 7445 / 7476/7491/ 555 / 7494 / 7447 / 74180 / 7485 / 7473 / 74138 / 7411 /7474</li> <li>14. Computer with HDL software</li> </ol>
30.	Circuits Design and Simulation Laboratory	<ol style="list-style-type: none"> <li>1. Transistors, Resistors, Capacitors, Inductors, diodes, Zener Diodes, Bread</li> <li>2. Boards, Transformers</li> <li>3. CRO (Min 30MHz)</li> <li>4. Digital LCR Meter</li> <li>5. Digital Multimeter</li> <li>6. Dual Regulated Power Supplies ( 0 - 30V)</li> <li>7. Signal Generator /Function Generators (2 MHz)</li> <li>8. SPICE Circuit Simulation Software</li> <li>9. Transistor/FET (BJT-NPN-PNP and NMOS/PMOS)</li> <li>10. Transistors, Resistors, Capacitors, diodes, Zener diodes, Bread Boards, Transformers, wires, Power transistors, Potentiometer, A/D and D/A convertors, LEDs</li> </ol>
31.	Linear Integrated Circuits Laboratory	<ol style="list-style-type: none"> <li>1. Digital Multimeter</li> <li>2. Dual Regulated Power Supplies ( 0 - 30V)</li> <li>3. IC</li> <li>4. Signal Generator /Function Generators (2 MHz)</li> <li>5. Standalone desktops PC</li> <li>6. CRO /DSO (Min 30MHz)</li> </ol>
32.	Digital Signal Processing Laboratory	<ol style="list-style-type: none"> <li>1. CRO (20MHz)</li> <li>2. MATLAB with Simulink and Signal Processing Tool Box or Equivalent Software in desktop systems</li> <li>3. PCs with Fixed / Floating point DSP Processors (Kit / Add-on Cards)</li> <li>4. Signal Generators (1MHz)</li> <li>5. Analog Discovery kit(signal Generator + CRO together)</li> </ol>
33.	Communication Systems Laboratory	<ol style="list-style-type: none"> <li>1. Probes(CRO)</li> <li>2. CROs</li> <li>3. DSO</li> <li>4. Kits for Signal Sampling, TDM, AM, FM, PCM, DM and Line Coding Schemes,</li> <li>5. Error control code</li> <li>6. MATLAB/SCILAB or equivalent software package for simulation experiments</li> </ol>



		<ol style="list-style-type: none"> <li>7. MSO</li> <li>8. Patch cords</li> <li>9. PCs</li> </ol>
34.	Communication Networks Laboratory	<ol style="list-style-type: none"> <li>1. PCs</li> <li>2. Qualnet /Optisim /Matlab /NS2/ Netsim</li> </ol>
35.	VLSI Design Laboratory	<ol style="list-style-type: none"> <li>1. Xilinx ISE/Altera Quartus/ equivalent EDA Tools</li> <li>2. Cadence/Synopsis/ Mentor Graphics/ Tanner/ equivalent EDA Tools</li> <li>3. Personal Computer</li> <li>4. Xilinx/Altera/equivalent FPGA Boards</li> </ol>
36.	Optical and Microwave Laboratory	<ol style="list-style-type: none"> <li>1. PiN PDs with ST / SC / E2000 receptacles 650 / 850 nm</li> <li>2. Kit for measuring Numerical aperture and Attenuation of</li> <li>3. LEDs with ST / SC / E2000 receptacles 650 / 850 nm</li> <li>4. Microwave test Bench at X band and Antenna turn table to measure Radiation pattern of Horn antenna, 2 Horn antennas</li> <li>5. Microwave test Bench at X band to determine Directional coupler characteristics</li> <li>6. Microwave test Bench at X band to determine VSWR for Isolator and</li> <li>7. Circulator, VSWR meter, Isolator, Circulator, E Plane Tee, H plane Tee</li> <li>8. Microwave test Bench at X band, Variable attenuator, Detector and 20 MHz</li> <li>9. Digital / Analog Oscilloscope</li> <li>10. MM/SM Glass and plastic fiber patch chords with ST/SC/E2000 connectors</li> <li>11. Trainer kit for analyzing Analog and Digital link performance, 2 Mbps PRBS Data source, 10 MHz signal generator, 20 MHz Digital storage Oscilloscope</li> <li>12. Trainer kit for carrying out LED and PIN diode characteristics, Digital multimeter, optical power meter</li> <li>13. Trainer kit for determining the mode characteristics, losses in optical fiber</li> </ol>
37.	Electric Circuits Laboratory	<ol style="list-style-type: none"> <li>1. Function Generator (1 MHz)</li> <li>2. Single Phase Energy Meter</li> <li>3. Multi-meters</li> <li>4. PC With Circuit Simulation Software ( 10 Users)</li> <li>5. Regulated Power Supply: 0 - 15 V D.C</li> <li>6. Single Phase Wattmeter</li> <li>7. AC/DC - Voltmeters</li> <li>8. Printer</li> <li>9. Oscilloscope (20 MHz).</li> <li>10. Ammeters</li> <li>11. Circuit Connection Boards</li> <li>12. Decade Resistance Box, Decade Inductance Box, Decade Capacitance Box (Each)</li> <li>13. Digital Storage Oscilloscope (20 MHz)</li> <li>14. e-Sim/Scilab/Pspice / Matlab /other Equivalent software Package)</li> </ol>
38.	Electronics Laboratory	<ol style="list-style-type: none"> <li>1. Resistors, Capacitors and inductors</li> <li>2. Necessary digital IC</li> <li>3. Function Generators</li> <li>4. CRO</li> <li>5. Bread boards</li> <li>6. Regulated 3 output Power Supply 5 +_ 15V</li> <li>7. Storage Oscilloscope</li> <li>8. Semiconductor devices like Diode, Zener Diode, NPN Transistors, JFET, UJT, Photo diode, Photo Transistor</li> </ol>
39.	Electrical Machines Laboratory I	<ol style="list-style-type: none"> <li>1. Three Phase Resistive Loading Bank</li> <li>2. Single Phase Transformer</li> <li>3. Single Phase Resistive Loading Bank</li> <li>4. I Three Phase Induction Motor with Loading Arrangement</li> <li>5. Single Phase Induction Motor with Loading Arrangement</li> <li>6. Single Phase Auto Transformer</li> <li>7. DC Shunt Motor Coupled With Three phase Alternator</li> <li>8. DC Shunt Motor Coupled With DC Shunt Generator</li> <li>9. DC Series Motor with Loading Arrangement</li> <li>10. DC Compound motor with loading arrangement</li> <li>11. Three Phase Auto Transformer</li> </ol>

		<ul style="list-style-type: none"> <li>12. Tachometer -Digital/Analog</li> <li>13. DC Shunt Motor with Loading Arrangement</li> <li>14. DC Shunt Motor Coupled With DC Compound Generator</li> </ul>
40.	Control and Instrumentation Laboratory	<ul style="list-style-type: none"> <li>1. Optical sensor</li> <li>2. LVDT20mm core length movable type</li> <li>3. Instrumentation Amplifier kit</li> <li>4. IC Transistor kit</li> <li>5. Flow measurement Trainer kit (1/2 HP Motor, Water tank, Digital Milliammeter, complete set)</li> <li>6. Electric heater</li> <li>7. DSO for capturing transience</li> <li>8. Digital multi meters, speed and torque sensors</li> <li>9. DC motor - Generator test set-up for evaluation of motor parameters</li> <li>10. Current generator (0- 20mA)</li> <li>11. CRO 30MHz</li> <li>12. Analog - Digital and Digital - Analog converters (ADC and DACs)</li> <li>13. Air foot pump (with necessary connecting tubes)</li> <li>14. AC Synchro transmitter&amp; receiver</li> <li>15. 30 psi Pressure chamber (complete set)</li> <li>16. 2MHz Function Generator</li> <li>17. 100gm weights</li> <li>18. Thermistor (silicon type) RTD nickel type Thermometer</li> <li>19. Single phase Auto transformer</li> <li>20. Strain Gauge Kit with Handy lever beam</li> <li>21. Watthour meter (energy meter)</li> <li>22. Voltmeter Rheostat Stop watch Connecting wires</li> <li>23. Tacho Generator Coupling set</li> <li>24. R, L, C Bridge kit (with manual)</li> <li>25. Position Control Systems Kit (with manual)</li> <li>26. PID controller simulation and learner kit</li> <li>27. Personal computers with control system simulation packages</li> </ul>
41.	Electrical Machines Laboratory II	<ul style="list-style-type: none"> <li>1. DC Shunt Motor Coupled With Three phase Slip ring Induction motor</li> <li>2. Single Phase Induction Motor with Loading Arrangement</li> <li>3. Single Phase Resistive Loading Bank</li> <li>4. Three Phase Auto Transformer</li> <li>5. Synchronous Induction motor 3HP</li> <li>6. Tachometer -Digital/Analog</li> <li>7. Three Phase Induction Motor with Loading Arrangement</li> <li>8. Three Phase Resistive Loading Bank</li> <li>9. DC Shunt Motor Coupled With Three phase Alternator</li> <li>10. Capacitor Bank</li> <li>11. Single Phase Auto Transformer</li> </ul>
42.	Power Electronics and Drives Laboratory	<ul style="list-style-type: none"> <li>1. SCR &amp; TRIAC based I phase AC controller along with lamp or rheostat load</li> <li>2. Single phase Auto transformer</li> <li>3. Single phase SCR based half controlled converter and fully controlled converter along with built-in/separate/firing circuit/module and meter</li> <li>4. Switched mode power converter module/Discrete Component</li> <li>5. Work tables</li> <li>6. LCR meter</li> <li>7. Cathode ray Oscilloscope</li> <li>8. Isolation Transformer</li> <li>9. Components (Inductance, Capacitance )</li> <li>10. Cyclo converter kit with firing module</li> <li>11. DC and AC meters of required ranges</li> <li>12. Device characteristics(for SCR, MOSFET, TRIAC,GTO,IGCT and IGBT kit with builtin / discrete power supply and meters)</li> <li>13. DRIVES LABORATORY Dual regulated Dc power supply with common ground</li> <li>14. IGBT based single phase PWM inverter module/Discrete Component</li> <li>15. IGBT based three phase PWM inverter module/Discrete Component</li> <li>16. MOSFET based step up and step down choppers(Built in/ Discrete)</li> </ul>

		<ul style="list-style-type: none"> <li>17. Multimeter</li> <li>18. Rheostats of various ranges</li> </ul>
43.	Microprocessor and Microcontroller Laboratory	<ul style="list-style-type: none"> <li>1. AC &amp; DC motor with Controller</li> <li>2. 8255 Interface board</li> <li>3. 8254 timer counter</li> <li>4. 8251 Interface board</li> <li>5. Trainer with Power Supply</li> <li>6. 8051 Micro Controller Trainer Kit with power supply</li> <li>7. 8259 Interface board</li> <li>8. Traffic Light Control System</li> <li>9. ADC and DAC card</li> <li>10. 8279 Keyboard / Display Interface board</li> </ul>
44.	Construction Materials Laboratory	<ul style="list-style-type: none"> <li>1. Flexure testing machine</li> <li>2. Aggregate Crushing Value Apparatus</li> <li>3. Aggregate Impact Value Apparatus</li> <li>4. Beam Mould</li> <li>5. Compaction factor apparatus</li> <li>6. Compression testing machine</li> <li>7. Concrete</li> <li>8. Concrete Cylinders</li> <li>9. Concrete mixing machine</li> <li>10. Cylindrical metal measure of 3 litre capacity</li> <li>11. IS sieves 12.5 mm, 10 mm and 2.36 mm</li> <li>12. IS Sieves 40 mm, 31.5 mm, 25 mm, 20mm, 16mm, 12.5 mm, 10mm, 6.3 mm</li> <li>13. Length gauge</li> <li>14. Oven</li> <li>15. Pycnometer</li> <li>16. Shallow flat bottom dish</li> <li>17. Sieve set (IS sieves 4.75 mm, 2.36 mm, 1.18 mm, 600 micron, 300 micron, 150 micron and 75 micron )</li> <li>18. Slump cone apparatus</li> <li>19. Tamping rod</li> <li>20. Thickness gauge</li> <li>21. Trowels and Pans</li> <li>22. Weighing Balance or scale (accuracy 0.5g)</li> <li>23. Weighing Balance or scale (accuracy 1 g)</li> </ul>
45.	Security Laboratory	<ul style="list-style-type: none"> <li>1. PCs</li> <li>2. GnuPG, KF sensor or equivalent, snort, Net Stumbler or equivalent</li> </ul>
46.	Grid and Cloud Computing Laboratory	<ul style="list-style-type: none"> <li>1. PCs</li> <li>2. Globus Toolkit or equivalent Eucalyptus or open Nebula or equivalent</li> </ul>
47.	Embedded Laboratory	<ul style="list-style-type: none"> <li>1. Embedded trainer kits with ARM board</li> <li>2. Embedded trainer kits suitable for wireless communication</li> </ul>
48.	Power System Simulation Laboratory	<ul style="list-style-type: none"> <li>1. Compilers C,C++,VB,VC++</li> <li>2. Power System simulation software</li> <li>3. Personal computers(Pentium-IV, 80GB, 512 MB RAM)</li> <li>4. Dot matrix</li> <li>5. Server (Pentium IV, 80GB, 1GB RAM) (High speed processor)</li> <li>6. Printer laser</li> </ul>
49.	Simulation and Analysis Laboratory	<ul style="list-style-type: none"> <li>1. Color Desk Jet Printer</li> <li>2. Computer Work Station</li> <li>3. Multibody Dynamic software suitable for Mechanism simulation and analysis</li> <li>4. C/MATLAB</li> </ul>
50.	Computer Aided Machine Drawing	<ul style="list-style-type: none"> <li>1. Computers with necessary accessories</li> <li>2. Printer</li> <li>3. Assembly drawings using any 2D/3D CAD software</li> </ul>

**(d) SOFTWARES AVAILABLE**

<b>Software</b>	<b>Available</b>
System software	1. LINUX 2. UBUNTU 3. windows server
Application Software	1. clarity English success curriculum based English learning 2. soft skills and personality development 3. euro talk learn English business collection 4. c 5. java 6. apache tomcat 8.1 7. modern lib 8. android studio 9. Mozilla 10. open gl Application Software -(Twenty) 11. ns2 12. opnet 13. blender 14. inkscape 15. netbeans 16. php 17. gimp 18. pearl 19. qcad 20. k3b

**(e) NETWORK CONNECTIVITY**

Available Bandwidth	100 Mbps
Number of nodes with Internet connection	420

**15. FUNDS RECEIVED FROM AICTE I UGC XII PLAN ONWARDS**

<b>S.No</b>	<b>Name of the Funding Agency</b>	<b>Name of the Scheme</b>	<b>Amount Sanctioned (Rs.)</b>	<b>Amount Released so far (Rs)</b>	<b>Present Status</b>	<b>Remarks, if any</b>
1.	DST/SERB (Ongoing)	Empowerment and Equity opportunities for Excellence in Science (EMEQ)	2973200	1900100	Present status: suppliers short listed and waiting for DOTE approval for the purchase of equipment.	-

**16. MoU WITH COMPANIES**

<b>Sl. No.</b>	<b>Company Name</b>
1	Microturn IT Services Private Limited, Chennai - 600126
2	WiseTech Source Private Limited, Chennai 600032
3	Entrust Technoservices Private Limited, Trichy - 620001
4	Active Energy Solution, Erode
5	Irrigation Management Training Institute, Thuvakudi, Trichy - 620 015
6	CADD Centre Training Services Private Limited, Trichy – 620017 (CSE Dept.)
7	CADD Centre Training Services Private Limited, Trichy – 620001 (CIVIL Dept.)
8	Pantech ProEd Private Limited, Trichy
9	Vi Microsystems Private Limited, Chennai – 600096
10	Rane Brake Lining Limited, Trichy
11	Nagu Hospital, Trichy - 620012

### 17. NBA ACCREDITATION STATUS

1	Name/ List of Programmes/ Courses Accredited	NIL
2	Applied for Accreditation	NIL
	A. Applied but Visit not happened	NIL
	B. Visit happened but result awaited	NIL
3	<b>List of programmes/ courses Not Applied</b>	Civil Engineering Mechanical Engineering Electrical and Electronics Engineering Electronics and Communication Engineering Computer Science and Engineering

### 18. NAAC ACCREDITATION STATUS

1	Accredited	NIL
2	Applied for Accreditation	NIL
	A. Applied but Visit not happened	NIL
	B. Visit happened but result awaited	NIL
3	<b>Not Applied</b>	Civil Engineering Mechanical Engineering Electrical & Electronics Engineering Electronics & Communication Engineering Computer Science & Engineering